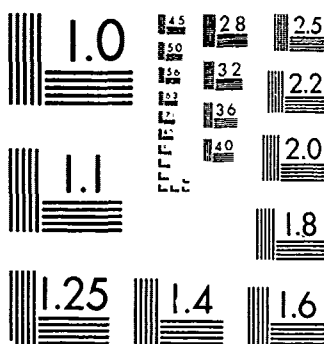


1 OF 1

# AD-A954 761



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

THIS REPORT IS UNCLASSIFIED AND  
ITS DISTRIBUTION IS UNLIMITED

# 100 COMPANIES AND THEIR SUBSIDIARY CORPORATIONS

## LISTED ACCORDING TO NET VALUE OF MILITARY

### PRIME CONTRACT AWARDS

Fiscal Year 1963  
(July 1962 - June 1963)

The 100 companies which received the largest dollar volume of military prime contracts of \$10,000 or more in fiscal year 1963 accounted for 73.9% of the United States total. This is an increase of 1.6 percentage points from the 72.3% during fiscal year 1962, but a decrease of 0.3 of one percentage point from the 74.2% received in fiscal year 1961. As has been noted in previous reports, a substantial part of the prime contract work of companies on the 100 company list is subcontracted to other concerns. About one-half of the military work of the large concerns is subcontracted, and over one-third of the amount subcontracted is paid to small business concerns.

It may be seen from the following table that the increase occurred in the first 50 companies which received 2.2% more of the total in fiscal year 1963 than in the previous year, whereas companies in the 51st to 100th positions obtained 0.6% less of the 1963 total. The 1963 percentage for the first 25 companies is lower than any year shown except fiscal year 1962, and for the 100 companies it is about the same as the average during the years prior to fiscal year 1962.

### Percent of U. S. Total

| <u>Companies</u> | <u>FY 1958</u> | <u>FY 1959</u> | <u>FY 1960</u> | <u>FY 1961</u> | <u>FY 1962</u> | <u>FY 1963</u> |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1st              | 9.8%           | 7.2%           | 6.0%           | 6.5%           | 5.6%           | 5.9%           |
| 2nd              | 6.4            | 5.2            | 5.1            | 5.2            | 4.7            | 5.2            |
| 3rd              | 3.6            | 4.5            | 4.8            | 5.2            | 4.4            | 4.1            |
| 4th              | 3.5            | 4.1            | 4.6            | 4.1            | 4.0            | 4.0            |
| 5th              | 3.0            | 4.0            | 4.3            | 3.8            | 3.8            | 4.0            |
| 1 - 5            | 26.3%          | 25.0%          | 24.8%          | 24.8%          | 22.5%          | 23.2%          |
| 6 - 10           | 12.4           | 12.0           | 11.3           | 11.8           | 11.1           | 10.9           |
| 11 - 25          | 19.1           | 17.6           | 17.4           | 18.2           | 17.2           | 17.8           |
| 1 - 25           | 57.8%          | 54.6%          | 53.5%          | 54.8%          | 50.8%          | 51.9%          |
| 26 - 50          | 9.1            | 10.7           | 11.3           | 11.0           | 12.6           | 13.7           |
| 51 - 75          | 4.8            | 5.5            | 5.4            | 5.5            | 6.0            | 5.5            |
| 76 - 100         | 2.5            | 3.0            | 3.2            | 2.9            | 2.9            | 2.8            |
| 1 - 100          | 74.2%          | 73.8%          | 73.4%          | 74.2%          | 72.3%          | 73.9%          |

The list for fiscal year 1963 contains 17 companies which did not appear on the fiscal year 1962 list. Most of the new names appear toward the end of the list, but two companies attained a rank within the first fifty. These are Merritt-Chapman & Scott Corp. with contracts totalling \$169.9 million in 34th position, and Studebaker Corp. with contracts totalling \$83.5 million in 47th position.

Over half of the companies were engaged in missile-space, aircraft and electronics work. The contract work of many of the companies involved more than one major commodity category. Based on the category representing the largest dollar volume of contracts awarded to each company, there were 23 missile-space, 17 aircraft and 13 electronics firms. The remaining 47 companies fell into the following categories: petroleum (11), services (9), tank-automotive (8), ammunition (8), ships (7), construction (2), and construction equipment (2).

The same five educational and non-profit institutions on the fiscal year 1962 list of large prime contractors are included on the fiscal year 1963 list. The group is comprised of the following: Massachusetts Institute of Technology, Johns Hopkins University, Aerospace Corp., System Development Corp., and Mitre Corp. These non-profit contractors are generally providing research, development and training services in the missile-space and electronics programs.

Five companies received prime contract awards of more than \$1 billion each in fiscal year 1963. These companies and a brief description of their more important contract work are as follows:

The Lockheed Aircraft Corp. led the list for the second consecutive year receiving \$1,517.0 million, or 5.9% of the total. The aircraft contracts included the C-141A Starlifter Jet Cargo Transport, C-130E Hercules Turboprop Jet Transport, F-104 Starfighter Jet Fighter, P2 Neptune Piston-Engine Patrol Bomber, and the P3A Electra Advance Jet Version. It is a principal prime contractor for the Polaris missile, the Discoverer series of polar-orbiting satellites, the Agena space vehicle and other space vehicles. The company and its subsidiaries also received contracts for shipbuilding and electronics.

Boeing Company was in second place (5.2%), up from third place in fiscal year 1962. Its contract work was almost entirely in aircraft and missiles. Missile projects included the Minuteman ICBM Missile and Dyna-Soar space craft. Aircraft projects included C & KC-135 Troop and Cargo Transports, CH-47A Chinook Troop Transport, HRB-1 Sea Knight Assault Transport Helicopters, and modification of B-52G & H Strato Fortress bombers.

North American Aviation, Inc., (4.1%) was third in fiscal year 1963 compared to fourth place in fiscal year 1962. Its prime contract work also is predominantly for aircraft and missiles including the A5 Attack Weapon System, B-70 Valkyrie Long-range Strategic Weapon System, and a wide variety of electronic equipment including guidance and control for the Minuteman missile and for navigational systems for ships.

General Dynamics Corp., whose contracts totalled \$1,033.2 million (4.0%), dropped from second place in fiscal year 1962 to fourth place in fiscal year 1963. The prime contract work of the company was largely for missiles. It is also an important contractor for ships and aircraft, the contract value being about equal for each. In fiscal year 1963, the Electric Boat Division produced nuclear submarines; Pomona Division worked on development of Mauler and Redeye missiles and production of Tartar and Terrier missiles; Rochester Division produced communications equipment; Astronautics Division worked on large contracts for the Atlas missile and boosters for the space program; and the Fort Worth Division worked on development of F-111 fighters and continued to furnish repair parts and components for B-58 bombers.

General Electric Company, with \$1,021.2 million (4.0%) was in fifth place, the same position as a year ago. Its largest contracts were for jet aircraft engines. Guidance and control systems for missiles were next in importance. The company also produced a variety of electronics items and, in addition, had large contracts from the Navy for development and production of nuclear propulsion machinery for ships.

INDEX OF 100 PARENT COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE  
LARGEST DOLLAR VOLUME OF MILITARY PRIME CONTRACT AWARDS IN FISCAL YEAR 1963

| Rank | Parent Company                            | Rank | Parent Company                           |
|------|---|------|--|
| 49.  | Aerospace Corp.                           | 59.  | Lear-Siegler, Inc.                       |
| 95.  | Air Products & Chemicals, Inc.            | 26.  | Ling-Temco-Vought, Inc.                  |
| 86.  | Allis-Chalmers Mfg. Co.                   | 29.  | Litton Industries, Inc.                  |
| 81.  | American Bosch Arms Corp.                 | 1.   | Lockheed Aircraft Corp.                  |
| 61.  | American Machine & Foundry Co.            | 93.  | Loral Electronics Corp.                  |
| 7.   | American Telephone & Telegraph Co.        | 60.  | Magnavox Co.                             |
| 85.  | Asiatic Petroleum Corp.                   | 6.   | Martin Marietta Corp.                    |
| 96.  | Atkinson (Guy F.) Co.                     | 51.  | Massachusetts Institute of Technology    |
| 21.  | Avco Corp.                                | 9.   | McDonnell Aircraft Corp.                 |
| 80.  | Bath Iron Works Corp.                     | 34.  | Merritt-Chapman & Scott Corp.            |
| 19.  | Bendix Corp.                              | 33.  | Minneapolis-Honeywell Regulator Co.      |
| 52.  | Bethlehem Steel Corp.                     | 84.  | Mitre Corp.                              |
| 2.   | Boeing Co.                                | 46.  | Morrison-Knudsen & Associates            |
| 48.  | Burroughs Corp.                           | 25.  | Newport News Shipbuilding & Dry Dock Co. |
| 97.  | Carrier Corp.                             | 3.   | North American Aviation, Inc.            |
| 31.  | Chrysler Corp.                            | 24.  | Northrop Corp.                           |
| 98.  | Clark Equipment Co.                       | 56.  | Olin Mathieson Chemical Corp.            |
| 39.  | Collins Radio Co.                         | 37.  | Pan American World Airways, Inc.         |
| 45.  | Continental Motors Corp.                  | 100. | Phillips Petroleum Co.                   |
| 72.  | Continental Oil Co.                       | 15.  | Radio Corp. of America                   |
| 88.  | Control Data Corp.                        | 18.  | Raytheon Co.                             |
| 44.  | Curtiss-Wright Corp.                      | 30.  | Republic Aviation Corp.                  |
| 83.  | Day & Zimmerman, Inc.                     | 75.  | Richfield Oil Corp.                      |
| 91.  | DeFoe Shipbuilding Co.                    | 69.  | Ryan Aeronautical Co.                    |
| 14.  | Douglas Aircraft Co.                      | 54.  | Shell Caribbean Petroleum Co.            |
| 66.  | du Pont (E. I.) de Nemours & Co.          | 76.  | Sinclair Oil Corp.                       |
| 90.  | Dynallectron Corp.                        | 58.  | Socony Mobil Oil Co.                     |
| 79.  | Eastman Kodak Co.                         | 10.  | Sperry Rand Corp.                        |
| 28.  | F M C Corp.                               | 42.  | Standard Oil Co. (California)            |
| 92.  | Flying Tiger Line, Inc.                   | 67.  | Standard Oil Co. (Indiana)               |
| 23.  | Ford Motor Co.                            | 36.  | Standard Oil Co. (New Jersey)            |
| 63.  | Garrett Corp.                             | 47.  | Studebaker Corp.                         |
| 4.   | General Dynamics Corp.                    | 87.  | Sundstrand Corp.                         |
| 5.   | General Electric Co.                      | 73.  | Sverdrup & Parcel, Inc.                  |
| 11.  | General Motors Corp.                      | 71.  | System Development Corp.                 |
| 40.  | General Precision Equipment Corp.         | 41.  | Texasco, Inc.                            |
| 35.  | General Telephone & Electronics Corp.     | 94.  | Texas Instruments, Inc.                  |
| 12.  | General Tire & Rubber Co.                 | 38.  | Textron, Inc.                            |
| 78.  | Gilfillan Corp.                           | 22.  | Thiokol Chemical Corp.                   |
| 50.  | Goodyear Tire & Rubber Co.                | 43.  | Thompson Ramo Wooldridge, Inc.           |
| 13.  | Grumman Aircraft Engineering Corp.        | 82.  | Union Carbide Corp.                      |
| 53.  | Hayes International Corp.                 | 8.   | United Aircraft Corp.                    |
| 89.  | Hazeltine Corp.                           | 99.  | U.S. Lines Co.                           |
| 32.  | Hercules Powder Co.                       | 62.  | Universal American Corp.                 |
| 17.  | Hughes Aircraft Co.                       | 77.  | Vitro Corp. of America                   |
| 27.  | International Business Machines Corp.     | 74.  | Western Union Telegraph Co.              |
| 55.  | International Harvester Co.               | 16.  | Westinghouse Electric Corp.              |
| 20.  | International Telephone & Telegraph Corp. | 70.  | White Motor Co.                          |
| 57.  | Johns Hopkins University                  |      |  |
| 65.  | Kaiser Industries Corp.                   |      |  |
| 68.  | Kaman Aircraft Corp.                      |      |  |
| 64.  | Kiewit (Peter) Sons' Co.                  |      |  |

100 COMPANIES AND THEIR SUBSIDIARIES LISTED ACCORDING TO  
NET VALUE OF MILITARY PRIME CONTRACT AWARDS

Fiscal Year 1963  
(1 July 1962 - 30 June 1963)

| Rank | Companies   | Millions<br>of<br>Dollars | Percent<br>of U.S.<br>Total | Cumulative<br>Percent of<br>U. S. Total |
|------|---|---------------------------|-----------------------------|---|
|      | U. S. TOTAL a/                                    | \$25,834.0                | 100.0%                      | 100.0%                                  |
|      | TOTAL, 100 COMPANIES<br>AND THEIR SUBSIDIARIES b/ | 19,092.6                  | 73.9                        | 73.9                                    |
| 1.   | LOCKHEED AIRCRAFT CORP.                           | 1,424.7                   | 5.5                         |   |
|      | Lockheed Air Terminal, Inc.                       | 1.3                       | d/                          |   |
|      | Lockheed Aircraft International, Inc.             | 0.1                       | d/                          |   |
|      | Puget Sound Bridge & Dry Dock Co.                 | 90.9                      | 0.4                         |   |
|      | Total   | 1,517.0                   | 5.9                         | 5.9                                     |
| 2.   | BOEING CO.  | 1,356.3                   | 5.2                         | 11.1                                    |
| 3.   | NORTH AMERICAN AVIATION, INC.                     | 1,062.4                   | 4.1                         | 15.2                                    |
| 4.   | GENERAL DYNAMICS CORP.                            | 1,033.2                   | 4.0                         | 19.2                                    |
| 5.   | GENERAL ELECTRIC CO.                              | 1,021.2                   | 4.0                         | 23.2                                    |
| 6.   | MARTIN MARIETTA CORP.                             | 766.8                     | 3.0                         | 26.2                                    |
| 7.   | AMERICAN TELEPHONE & TELEGRAPH CO.                | 165.8                     | 0.6                         |   |
|      | Chesapeake & Potomac Tel. Co.                     | 1.7                       | d/                          |   |
|      | Mountain States Tel. & Tel. Co.                   | 0.7                       | d/                          |   |
|      | New England Tel. & Tel. Co.                       | 0.4                       | d/                          |   |
|      | New Jersey Bell Tel. Co.                          | 0.2                       | d/                          |   |
|      | New York Telephone Co.                            | c/                        | d/                          |   |
|      | Northwestern Bell Tel. Co.                        | 0.1                       | d/                          |   |
|      | Pacific Tel. & Tel. Co.                           | 0.6                       | d/                          |   |
|      | Southern Bell Tel. & Tel. Co.                     | 1.3                       | d/                          |   |
|      | Southwestern Bell Tel. Co.                        | 0.7                       | d/                          |   |
|      | Teletype Corp.                                    | 5.4                       | d/                          |   |
|      | Western Electric Co.                              | 403.7                     | 1.6                         |   |
|      | Total   | 578.6                     | 2.2                         | 28.4                                    |
| 8.   | UNITED AIRCRAFT CORP.                             | 529.9                     | 2.1                         | 30.5                                    |
| 9.   | MCDONNELL AIRCRAFT CORP.                          | 497.0                     | 1.9                         | 32.4                                    |
| 10.  | SPERRY RAND CORP.                                 | 445.5                     | 1.7                         | 34.1                                    |
| 11.  | GENERAL MOTORS CORP.                              | 444.0                     | 1.7                         | 35.8                                    |
| 12.  | GENERAL TIRE & RUBBER CO.                         | 5.5                       | d/                          |   |
|      | Aerojet Delft Corp.                               | 0.3                       | d/                          |   |
|      | Aerojet-General Corp.                             | 409.8                     | 1.6                         |   |
|      | Space Electronics Corp.                           | 1.9                       | d/                          |   |
|      | Space General Corp.                               | 7.1                       | d/                          |   |
|      | Total   | 424.6                     | 1.6                         | 37.4                                    |

| Rank | Companies                                       | Millions<br>of<br>Dollars | Percent<br>of U.S.<br>Total | Cumulative<br>Percent of<br>U. S. Total |
|------|---|---------------------------|-----------------------------|---|
| 13.  | GRUMMAN AIRCRAFT ENGINEERING CORP.              | \$ 390.5                  | 1.5                         | 38.9                                    |
| 14.  | DOUGLAS AIRCRAFT CO.                            | 360.7                     | 1.4                         |   |
|      | Astropower, Inc.                                | 0.4                       | d/                          |   |
|      | Total   | 361.1                     | 1.4                         | 40.3                                    |
| 15.  | RADIO CORP. OF AMERICA                          | 328.6                     | 1.3                         |   |
|      | RCA Institutes, Inc.                            | c/                        | d/                          |   |
|      | Total   | 328.6                     | 1.3                         | 41.6                                    |
| 16.  | WESTINGHOUSE ELECTRIC CORP.                     | 322.6                     | 1.3                         | 42.9                                    |
| 17.  | HUGHES AIRCRAFT CO.                             | 312.9                     | 1.2                         | 44.1                                    |
| 18.  | RAYTHEON CO.                                    | 290.6                     | 1.1                         |   |
|      | Autometric Corp.                                | 0.6                       | d/                          |   |
|      | Machlett Laboratories, Inc.                     | 3.7                       | d/                          |   |
|      | Trans-Sil Corp.                                 | c/                        | d/                          |   |
|      | Total   | 294.9                     | 1.1                         | 45.2                                    |
| 19.  | BENDIX CORP.                                    | 285.1                     | 1.1                         |   |
|      | Bendix Field Engineering Corp.                  | 4.9                       | d/                          |   |
|      | Bendix-Westinghouse Automotive<br>Air Brake Co. | 0.2                       | d/                          |   |
|      | Microwave Devices, Inc.                         | c/                        | d/                          |   |
|      | Sheffield Corp.                                 | 0.1                       | d/                          |   |
|      | Total   | 290.3                     | 1.1                         | 46.3                                    |
| 20.  | INTERNATIONAL TELEPHONE & TELEGRAPH CORP.       | 145.9                     | 0.6                         |   |
|      | American Cable & Radio Corp.                    | 2.0                       | d/                          |   |
|      | Federal Electric Corp.                          | 80.5                      | 0.3                         |   |
|      | General Controls Co.                            | 0.6                       | d/                          |   |
|      | International Electric Corp.                    | 33.4                      | 0.1                         |   |
|      | ITT Communication Systems, Inc.                 | 0.3                       | d/                          |   |
|      | ITT Export Corp.                                | 1.5                       | d/                          |   |
|      | ITT Semi-Conductors, Inc.                       | c/                        | d/                          |   |
|      | Jennings Radio Mfg. Corp.                       | 0.3                       | d/                          |   |
|      | Kuthe Laboratories, Inc.                        | 0.5                       | d/                          |   |
|      | Royal Electric Corp.                            | 0.3                       | d/                          |   |
|      | Surprenant Mfg. Co.                             | 0.2                       | d/                          |   |
|      | Total   | 265.5                     | 1.0                         | 47.3                                    |
| 21.  | AVCO CORP.                                      | 253.1                     | 1.0                         | 48.3                                    |
| 22.  | THIOKOL CHEMICAL CORP.                          | 238.5                     | 0.9                         |   |
|      | Shawnee Industries, Inc.                        | 0.1                       | d/                          |   |
|      | Total   | 238.6                     | 0.9                         | 49.2                                    |
| 23.  | FORD MOTOR CO.                                  | 74.6                      | 0.3                         |   |
|      | Philco Corp.                                    | 153.1                     | 0.6                         |   |
|      | Total   | 227.7                     | 0.9                         | 50.1                                    |



| Rank | Companies   | Millions<br>of<br>Dollars   | Percent<br>of U.S.<br>Total  | Cumulative<br>Percent of<br>U. S. Total |
|------|---|---|--|---|
| 24.  | NORTHROP CORP.<br>Page Communications Engineers, Inc.<br>Total  | \$ 194.1<br>28.8<br>222.9   | 0.8<br>0.1<br>0.9  | 51.0                                    |
| 25.  | NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.  | 221.0   | 0.9  | 51.9                                    |
| 26.  | LING-TEMCO-VOUGHT, INC.<br>Altec Companies, Inc.<br>Altec Lansing Corp.<br>Continental Electronics Mfg. Co.<br>Continental Electronics Systems, Inc.<br>F F & M Electronics, Inc.<br>Kentron Hawaii, Ltd.<br>Temco Electronics & Missiles Co.<br>Temco Electronics Display Systems<br>University Loudspeakers, Inc.<br>Total                                      | 163.0<br>0.1<br>0.3<br>5.9<br>0.1<br>0.7<br>4.7<br>10.0<br>0.4<br>0.7<br>205.9                    | 0.8<br>a/<br>a/<br>a/<br>a/<br>a/<br>a/<br>a/<br>a/<br>a/<br>a/              | 52.7                                    |
| 27.  | INTERNATIONAL BUSINESS MACHINES CORP.<br>Service Bureau Corp.<br>Total  | 203.0<br>0.3<br>203.3   | 0.8<br>a/<br>0.8   | 53.5                                    |
| 28.  | F M C CORP.   | 199.1   | 0.8  | 54.3                                    |
| 29.  | LITTON INDUSTRIES, INC.<br>Aero Service Corp.<br>Airtron, Inc.<br>Emertron, Inc.<br>Ingalls Shipbuilding Corp.<br>Litton Electron Tube Corp.<br>Litton Precision Products, Inc.<br>Litton Systems, Inc.<br>McKiernan-Terry Corp.<br>Monroe Calculating Machine Co., Inc.<br>Poly-Scientific Corp.<br>Western Geophysical Co. of America<br>Westrex Corp.<br>Total | 6.6<br>4.4<br>0.9<br>1.7<br>148.5<br>2.6<br>0.3<br>31.2<br>0.9<br>0.2<br>c/<br>c/<br>0.5<br>197.8 | a/<br>a/<br>a/<br>a/<br>0.7<br>a/<br>a/<br>0.1<br>a/<br>a/<br>a/<br>a/<br>a/ | 55.1                                    |
| 30.  | REPUBLIC AVIATION CORP.   | 196.8   | 0.7  | 55.8                                    |
| 31.  | CHRYSLER CORP.  | 186.2   | 0.7  | 56.5                                    |
| 32.  | HERCULES POWDER CO.   | 182.7   | 0.7  | 57.2                                    |
| 33.  | MINNEAPOLIS-HONEYWELL REGULATOR CO.   | 170.0   | 0.7  | 57.9                                    |
| 34.  | MERRITT-CHAPMAN & SCOTT CORP.<br>Devoe & Raynolds Co., Inc.<br>Higgins, Inc.<br>New York Shipbuilding Corp.<br>Total  | 4.3<br>0.4<br>1.9<br>163.3<br>169.9   | a/<br>a/<br>a/<br>0.6<br>0.6   | 58.5                                    |

| Rank | Companies   | Millions<br>of<br>Dollars | Percent<br>of U.S.<br>Total | Cumulative<br>Percent of<br>U. S. Total |
|------|---|---------------------------|-----------------------------|---|
| 35.  | GENERAL TELEPHONE & ELECTRONICS CORP.                 | \$ 0.1                    | d/                          |   |
|      | Automatic Electric Sales Corp.                        | 2.0                       | d/                          |   |
|      | General Telephone & Electronics Laboratories,<br>Inc. | 1.0                       | d/                          |   |
|      | Lenkurt Electric Co., Inc.                            | 7.4                       | d/                          |   |
|      | Sylvania Electric Products, Inc.                      | 152.1                     | 0.6                         |   |
|      | Total   | 162.6                     | 0.6                         | 59.1                                    |
| 36.  | STANDARD OIL CO. (NEW JERSEY)                         | 0.0                       | 0.0                         |   |
|      | Esso International, Inc.                              | 77.4                      | 0.3                         |   |
|      | Esso Research & Engineering Co.                       | 2.7                       | d/                          |   |
|      | Esso Standard Eastern, Inc.                           | 5.3                       | d/                          |   |
|      | Gilbert & Barker Mfg. Co.                             | c/                        | d/                          |   |
|      | Humble Oil & Refining Co.                             | 70.1                      | 0.3                         |   |
|      | Total   | 155.5                     | 0.6                         | 59.7                                    |
| 37.  | PAN AMERICAN WORLD AIRWAYS, INC.                      | 154.5                     | 0.6                         | 60.3                                    |
| 38.  | TEXTRON, INC.   | 2.6                       | d/                          |   |
|      | Accessory Products Corp.                              | 0.2                       | d/                          |   |
|      | Bell Aerospace Corp.                                  | 144.5                     | 0.6                         |   |
|      | Dalmo Victor Co.                                      | 0.1                       | d/                          |   |
|      | Nuclear Metals, Inc.                                  | 0.6                       | d/                          |   |
|      | Pittsburg Steel Foundry Corp.                         | 0.1                       | d/                          |   |
|      | Randall Co.   | 0.1                       | d/                          |   |
|      | Textron Electronics, Inc.                             | 1.8                       | d/                          |   |
|      | Textron Oregon, Inc.                                  | 1.0                       | d/                          |   |
|      | Townsend Co.  | 0.2                       | d/                          |   |
|      | Total   | 151.2                     | 0.6                         | 60.9                                    |
| 39.  | COLLINS RADIO CO.                                     | 144.3                     | 0.6                         | 61.5                                    |
| 40.  | GENERAL PRECISION EQUIPMENT CORP.                     | 0.3                       | d/                          |   |
|      | G P E Controls, Inc.                                  | c/                        | d/                          |   |
|      | General Precision, Inc.                               | 128.4                     | 0.5                         |   |
|      | Graflex, Inc.   | 0.7                       | d/                          |   |
|      | National Theatre Supply Co.                           | 0.1                       | d/                          |   |
|      | Strong Electric Corp.                                 | 1.9                       | d/                          |   |
|      | Total   | 131.4                     | 0.5                         | 62.0                                    |
| 41.  | TEXACO, INC.  | 41.4                      | 0.2                         |   |
|      | Caltex Oil Products Co. e/                            | 39.0                      | 0.2                         |   |
|      | Caltex Philippines, Inc. e/                           | 0.2                       | d/                          |   |
|      | Jefferson Chemical Co.                                | 0.2                       | d/                          |   |
|      | Paragon Oil Co.                                       | 1.8                       | d/                          |   |
|      | Texaco Experiment, Inc.                               | 1.1                       | d/                          |   |
|      | Texaco Export, Inc.                                   | 34.1                      | 0.1                         |   |
|      | Texaco Puerto Rico, Inc.                              | 1.0                       | d/                          |   |
|      | Texaco Trinidad, Inc.                                 | 0.1                       | d/                          |   |
|      | White Fuel Co., Inc.                                  | 1.6                       | d/                          |   |
|      | Total   | 120.5                     | 0.5                         | 62.5                                    |

| Rank | Companies                                | Millions<br>of<br>Dollars | Percent<br>of U.S.<br>Total | Cumulative<br>Percent of<br>U. S. Total |
|------|--|---------------------------|-----------------------------|---|
| 42.  | STANDARD OIL COMPANY (CALIFORNIA)        | \$ 63.6                   | C.2                         |   |
|      | American Bitumuls & Asphalt Co.          | 0.1                       | d/                          |   |
|      | California Chemical Co.                  | c/                        | d/                          |   |
|      | California Oil Co.                       | 12.0                      | d/                          |   |
|      | California Research Corp.                | 0.1                       | d/                          |   |
|      | Caltex Oil Products Co. e/               | 39.0                      | 0.2                         |   |
|      | Caltex Philippines, Inc. e/              | 0.2                       | d/                          |   |
|      | Pacific Oil Co.                          | c/                        | d/                          |   |
|      | Standard Oil Co. of Kentucky             | 1.2                       | d/                          |   |
|      | Standard Oil Co. of Texas                | 0.4                       | d/                          |   |
|      | Total                                    | 116.6                     | 0.4                         | 62.9                                    |
| 43.  | THOMPSON-RAMO-WOOLDRIDGE, INC.           | 42.4                      | 0.2                         |   |
|      | Federal Industries, Inc.                 | c/                        | d/                          |   |
|      | Good-All Electric Mfg. Co.               | 0.1                       | d/                          |   |
|      | Magna Corp.                              | 0.1                       | d/                          |   |
|      | Milam Electric Mfg. Co.                  | c/                        | d/                          |   |
|      | Pacific Semiconductors                   | 0.9                       | d/                          |   |
|      | Radio Condenser Co.                      | 0.1                       | d/                          |   |
|      | Radio Industries, Inc.                   | 0.3                       | d/                          |   |
|      | Space Technology Laboratories, Inc.      | 62.5                      | 0.2                         |   |
|      | Total                                    | 106.4                     | 0.4                         | 63.3                                    |
| 44.  | CURTISS-WRIGHT CORP.                     | 98.3                      | 0.4                         |   |
|      | Abrams Instrument Corp.                  | c/                        | d/                          |   |
|      | Redel, Inc.                              | 0.1                       | d/                          |   |
|      | Target Rock Corp.                        | c/                        | d/                          |   |
|      | Total                                    | 98.4                      | 0.4                         | 63.7                                    |
| 45.  | CONTINENTAL MOTORS CORP.                 | 85.9                      | 0.4                         |   |
|      | Continental Aviation & Engineering Corp. | 11.1                      | d/                          |   |
|      | Gray Marine Motor Co.                    | 0.1                       | d/                          |   |
|      | Wisconsin Motors Corp.                   | 0.1                       | d/                          |   |
|      | Total                                    | 97.2                      | 0.4                         | 64.1                                    |
| 46.  | MORRISON-KNUDSEN & ASSOCIATES f/         | 84.4                      | 0.3                         | 64.4                                    |
| 47.  | STUDEBAKER CORP.                         | 70.4                      | 0.3                         |   |
|      | Franklin Mfg. Co.                        | c/                        | d/                          |   |
|      | Onan (D. W.) Sons, Inc.                  | 2.0                       | d/                          |   |
|      | Paxton Products Corp.                    | c/                        | d/                          |   |
|      | Trans International Airlines, Inc.       | 10.9                      | d/                          |   |
|      | Total                                    | 83.3                      | 0.3                         | 64.7                                    |
| 48.  | BURROUGHS CORP.                          | 76.8                      | 0.3                         |   |
|      | Burroughs Control Corp.                  | 0.7                       | d/                          |   |
|      | Total                                    | 77.5                      | 0.3                         | 65.0                                    |
| 49.  | AEROSPACE CORP.                          | 75.5                      | 0.3                         | 65.3                                    |
| 50.  | GOODYEAR TIRE & RUBBER CO.               | 22.5                      | 0.1                         |   |
|      | Goodyear Aircraft Corp.                  | 50.2                      | 0.2                         |   |
|      | Total                                    | 72.7                      | 0.3                         | 65.6                                    |
| 51.  | MASSACHUSETTS INSTITUTE OF TECHNOLOGY    | 70.8                      | 0.3                         | 65.9                                    |

| Rank | Companies  | Millions<br>of<br>Dollars  | Percent<br>of U.S.<br>Total   | Cumulative<br>Percent of<br>U. S. Total |
|------|--|--|---|---|
| 52.  | BETHLEHEM STEEL CORP.<br>Bethlehem Steel Co.<br>Bethlehem Steel Export Corp.<br>Total  | \$ 0.0<br>68.2<br>0.2<br><u>68.4</u>                                     | 0.0<br>0.3<br><u>d/</u><br>0.3  | <br><br><br>66.2                        |
| 53.  | HAYES INTERNATIONAL CORP.  | 67.1   | 0.3   | 66.5                                    |
| 54.  | SHELL CARIBBEAN PETROLEUM CO.<br>International Lubricant Corp.<br>Shell Oil Co.<br>Total   | 37.8<br>1.9<br><u>26.8</u><br><u>66.5</u>                                | 0.2<br><u>d/</u><br><u>0.1</u><br>0.3                                 | <br><br><br>66.6                        |
| 55.  | INTERNATIONAL HARVESTOR CO.<br>Hough (Frank G.) Co.<br>Macleod & Co.<br>Solar Aircraft Co.<br>Total  | 47.5<br>8.7<br>1.1<br><u>9.0</u><br><u>66.3</u>                          | 0.3<br><u>d/</u><br><u>d/</u><br><u>d/</u><br>0.3                     | <br><br><br><br>67.1                    |
| 56.  | OLIN MATHIESON CHEMICAL CORP.  | 65.8   | 0.2   | 67.3                                    |
| 57.  | JOHNS HOPKINS UNIVERSITY   | 65.5   | 0.2   | 67.5                                    |
| 58.  | SOCONY MOBIL OIL CO.<br>Mobil Petroleum Co., Inc.<br>Total   | 64.2<br><u>c/</u><br><u>64.2</u>   | 0.2<br><u>d/</u><br>0.2   | <br><br>67.7                            |
| 59.  | LEAR-SIEGLER, INC.<br>Hallamore Electronics Co.<br>Magnetic Amplifiers, Inc.<br>Olympic Radio & Television, Inc.<br>Rett Electronics, Inc.<br>Total                  | 58.0<br><u>c/</u><br><u>c/</u><br><u>c/</u><br><u>3.0</u><br><u>61.0</u> | 0.2<br><u>d/</u><br><u>d/</u><br><u>d/</u><br><u>d/</u><br>0.2        | <br><br><br><br><br>67.9                |
| 60.  | MAGNAVOX CO.   | 57.7   | 0.2   | 68.1                                    |
| 61.  | AMERICAN MACHINE & FOUNDRY CO.<br>A M F International Co.<br>Beaird, Inc.<br>Cuno Engineering Corp.<br>Total   | 57.0<br><u>c/</u><br><u>c/</u><br><u>0.1</u><br><u>57.1</u>              | 0.2<br><u>d/</u><br><u>d/</u><br><u>d/</u><br>0.2                     | <br><br><br><br>68.3                    |
| 62.  | UNIVERSAL AMERICAN CORP.<br>American Cement Corp.<br>Amron Corp.<br>Bohn Aluminum & Brass Corp.<br>Hardeman (Paul), Inc.<br>Total                                    | 0.2<br><u>c/</u><br>23.8<br><u>c/</u><br><u>32.3</u><br><u>56.3</u>      | <u>d/</u><br><u>d/</u><br>0.1<br><u>d/</u><br><u>0.1</u><br>0.2       | <br><br><br><br><br>68.5                |
| 63.  | GARRETT CORP.  | 55.7   | 0.2   | 68.7                                    |
| 64.  | KIEWIT (PETER) SONS' CO.   | 54.1   | 0.2   | 68.9                                    |
| 65.  | KAISER INDUSTRIES CORP.<br>Kaiser (Henry J.) Co.<br>Kaiser Fleetwings, Inc.<br>Kaiser Jeep Corp.<br>Kaiser Steel Corp.<br>National Steel & Shipbuilding Co.<br>Total | 0.0<br>0.5<br><u>c/</u><br>43.6<br>2.8<br><u>2.3</u><br><u>49.2</u>      | 0.0<br><u>d/</u><br><u>d/</u><br>0.2<br><u>d/</u><br><u>d/</u><br>0.2 | <br><br><br><br><br><br>69.1            |

| Rank | Companies   | Millions<br>of<br>Dollars                | Percent<br>of U.S.<br>Total        | Cumulative<br>Percent of<br>U. S. Total |
|------|---|--|------------------------------------|---|
| 66.  | DU PONT (E. I.) DE NEMOURS & CO.<br>Remington Arms Co., Inc.<br>Total   | \$ 10.4<br>37.5<br>47.9                  | d/<br>0.2<br>0.2                   | 69.3                                    |
| 67.  | STANDARD OIL CO. (INDIANA)<br>American Oil Co.<br>Amoco Chemicals Corp.<br>Total  | 0.1<br>40.5<br>5.0<br>45.5               | d/<br>0.2<br>d/<br>0.2             | 69.5                                    |
| 68.  | KAMAN AIRCRAFT CORP.  | 44.9                                     | 0.2                                | 69.7                                    |
| 69.  | RYAN AERONAUTICAL CO.   | 44.2                                     | 0.2                                | 69.9                                    |
| 70.  | WHITE MOTOR CO.<br>Diamond T. Motor Truck Co.<br>Oliver Corp.<br>Total  | 44.0<br>c/<br>c/<br>44.0                 | 0.2<br>d/<br>d/<br>0.2             | 70.1                                    |
| 71.  | SYSTEM DEVELOPMENT CORP.  | 43.9                                     | 0.2                                | 70.3                                    |
| 72.  | CONTINENTAL OIL CO.<br>Douglas Oil Co. of Calif.<br>Malco Products, Inc.<br>Malco Refineries, Inc.<br>Western Oil & Fuel Co.<br>Total | 34.4<br>1.0<br>4.5<br>1.6<br>1.6<br>43.1 | 0.2<br>d/<br>d/<br>d/<br>d/<br>0.2 | 70.5                                    |
| 73.  | SVERDRUP & PARCEL, INC.<br>A R O, Inc.<br>Total   | 3.8<br>38.5<br>42.3                      | d/<br>0.2<br>0.2                   | 70.7                                    |
| 74.  | WESTERN UNION TELEGRAPH CO.   | 41.5                                     | 0.2                                | 70.9                                    |
| 75.  | RICHFELD OIL CORP.<br>American Mineral Spirits Co., Western<br>Total  | 39.7<br>0.1<br>39.8                      | 0.2<br>d/<br>0.2                   | 71.1                                    |
| 76.  | SINCLAIR OIL CORP.<br>Sinclair Refining Co.<br>Sinclair Research, Inc.<br>Total   | 0.0<br>38.3<br>0.1<br>38.4               | 0.0<br>0.2<br>d/<br>0.2            | 71.3                                    |
| 77.  | VITRO CORP. OF AMERICA  | 37.0                                     | 0.2                                | 71.5                                    |
| 78.  | GILFILLAN CORP.   | 37.0                                     | 0.2                                | 71.7                                    |
| 79.  | EASTMAN KODAK CO.<br>Eastman Chemical Products, Inc.<br>Eastman Kodak Stores, Inc.<br>Recordak Corp.<br>Total                         | 35.9<br>0.1<br>0.2<br>0.6<br>36.8        | 0.1<br>d/<br>d/<br>d/<br>0.1       | 71.8                                    |
| 80.  | BATH IRON WORKS CORP.<br>Hyde Windlass Co.<br>Total   | 34.3<br>0.3<br>34.6                      | 0.1<br>d/<br>0.1                   | 71.9                                    |

| Rank | Companies   | Millions<br>of<br>Dollars | Percent<br>of U.S.<br>Total          | Cumulative<br>Percent of<br>U. S. Total |
|------|---|---------------------------|--------------------------------------|---|
| 81.  | AMERICAN BOSCH ARMA CORP.   | \$ 33.8                   | 0.1                                  | 72.0                                    |
| 82.  | UNION CARBIDE CORP.   | 33.6                      | 0.1                                  | 72.1                                    |
| 83.  | DAY & ZIMMERMAN, INC.   | 33.3                      | 0.1                                  | 72.2                                    |
| 84.  | MITRE CORP.   | 33.1                      | 0.1                                  | 72.3                                    |
| 85.  | ASIATIC PETROLEUM CORP.   | 33.0                      | 0.1                                  | 72.4                                    |
| 86.  | ALLIS-CHALMERS MFG. CO.<br>Consolidated Systems Corp.<br>Total                        | 29.6<br>1.6<br>31.2       | 0.1<br><u>d/</u><br>0.1              | 72.5                                    |
| 87.  | SUNDSTRAND CORP.<br>Sundstrand Aircraft Service Corp.<br>Total                        | 30.9<br>0.3<br>31.2       | 0.1<br><u>d/</u><br>0.1              | 72.6                                    |
| 88.  | CONTROL DATA CORP.  | 30.1                      | 0.1                                  | 72.7                                    |
| 89.  | HAZELTINE CORP.<br>Hazeltime Research Corp.<br>Wheeler Laboratories, Inc.<br>Total    | 29.5<br>0.1<br>c/<br>29.6 | 0.1<br><u>d/</u><br><u>d/</u><br>0.1 | 72.8                                    |
| 90.  | DYNALECTRON CORP.   | 29.6                      | 0.1                                  | 72.9                                    |
| 91.  | DEFOE SHIPBUILDING CO.  | 29.3                      | 0.1                                  | 73.0                                    |
| 92.  | FLYING TIGER LINE, INC.   | 29.0                      | 0.1                                  | 73.1                                    |
| 93.  | LORAL ELECTRONICS CORP.   | 28.6                      | 0.1                                  | 73.2                                    |
| 94.  | TEXAS INSTRUMENTS, INC.<br>Engineering Supply Co.<br>Metals & Controls, Inc.<br>Total | 28.4<br>c/<br>0.2<br>28.6 | 0.1<br><u>d/</u><br><u>d/</u><br>0.1 | 73.3                                    |
| 95.  | AIR PRODUCTS & CHEMICALS, INC.  | 27.7                      | 0.1                                  | 73.4                                    |
| 96.  | ATKINSON (GUY F.) CO.<br>Willamette Iron & Steel Co.<br>Total                         | c/<br>27.3<br>27.3        | <u>d/</u><br>0.1<br>0.1              | 73.5                                    |
| 97.  | CARRIER CORP.<br>Spectrol Electronics Corp.<br>Total                                  | 26.8<br>0.1<br>26.9       | 0.1<br><u>d/</u><br>0.1              | 73.6                                    |
| 98.  | CLARK EQUIPMENT CO.   | 26.9                      | 0.1                                  | 73.7                                    |
| 99.  | U. S. LINES CO.   | 26.7                      | 0.1                                  | 73.8                                    |
| 100. | PHILLIPS PETROLEUM CO.  | 26.5                      | 0.1                                  | 73.9                                    |

FOOTNOTES:

- a/ Net value of new procurement actions minus cancellations, terminations and other credit transactions. The data include debit and credit procurement actions of \$10,000 or more, under military supply, service and construction contracts for work in the U. S.; plus awards to listed companies and other identifiable U. S. companies for work overseas.

Procurement actions include definitive contracts, the obligated portions of letter of intent and letter contracts, purchase orders, job orders, task orders, delivery orders, and any other orders against existing contracts. The data do not include that part of open-end or indefinite quantity contracts that have not been translated into specific orders on business firms. The data do not include purchase commitments or pending cancellations that have not yet become mutually binding agreements between the government and the company.

- b/ The assignment of subsidiaries to parent companies is based on stock ownership of 50% or more by the parent company, as indicated by data published in standard industrial reference sources. The company totals do not include contracts made by other U. S. Government agencies and financed with Department of Defense funds, or contracts awarded in foreign nations through their respective governments. The company names and corporate structures are those in effect as of 30 June 1963. Only those subsidiaries are shown for which procurement actions have been reported.
- c/ Less than \$50,000.
- d/ Less than 0.05%.
- e/ Stock ownership is equally divided between Standard Oil Co. of California and Texaco, Inc.; half of the total of military awards is shown under each of the parent companies.
- f/ A joint venture of Morrison-Knudsen Co., Inc., Paul Hardeman, Inc., Perini Corp., C. H. Leavell & Co., and Utah Construction & Mining Co.

Office of the Secretary of Defense